

-110 -120 -130 -140 -150 -160 -170 -180 -190
 PRGDVAELQEAVEEDPLYAVPLPKGQRPAAPTQVLEEDPSVEEEEIAAPPLPRNNVGEVEPQEDPIYQGGIPGHQEEMEEDPYASLDQVSQ
 P.GD.: : Q.. : . . . : G : . . : E : . . E.E.: . : P.. : . . E : . . E : . . P : . : S
 PSGDIQD-QSQQQQQQGAVGGAVGNNSPIERERRAAPESESDLYTIIIPKGKRTAAPILERKSPTPEPKVEDDEDLPPPTLPPRTFS-
 * 20 * 30 * 40 * 50 * 60 * 70 * 80 * 90 * 100

 -200 -210 -220 -230 -240 -250 -260 -270 -280
 GAGADGIQENPVQEAGEEELEDDIYQDPADFQGLGQQQQQLDQAGYQGPSSIGDRQLVNGPYGFNDGSYAMEFDF-DVMMEGVRDVIAHDEEID
 G.G.D.: . : P : . : I QD: . : : G G .Q : . . : G R::: GPY.F.F::: G M:F: D. W :VR:AV: . : EI.
 GEKYDDV-GVSMPTVSRGTYQPPIVQDSMNYSSIG-GVPQEAQYDAARAGGPRKFFLYGPYTFSNGQEIMDFEFDTTPWPDVRNAVVLGNKEIK
 * 110 * 120 * 130 * 140 * 150 * 160 * 170 * 180 * 190

 -290 -300 -310 -320 -330 -340 -350 -360 -370
 PKFLVTDGMRHICDKTVQSEGZNLPEDLEEIVSILKNDKEGISELINEPVQVDIPNNPVREGRNVMTLHLAYAYNVDPRIINAIESTVE
 ..L.T.G :R:I D:IV.S.G:L:E :EEI:.I: . . . I:E I::P::D: NNPV: . : NVMTL:HL.YA.: VDPRI: :A: . . VE
 EEWLTSGPVRDIADRIVASKGDLSEDQVEEILDIFMNESEIAEGISNPLHADVDNNPVKGAKNVMTLMHLVYACDVEDPRIVKALGEVE
 * 200 * 210 * 220 * 230 * 240 * 250 * 260 * 270 * 280

 -380 -390 -400 -410 -420 -430 -440 -450 -460
 NSFGESGLDGYNQDADGNLPLHAAKNCNGQVLJNCISKTNSNIIINIRNFGNQSPLHIVMVQNPAGCSIGNIQVANECCGMDFFNLLIDHPTGR
 N. G : G : YN: D :GNLPLHAAKNC.G: L. C : .KT: ::I : . NF:NQSPHL: .Q:PCS: :I: . : DF.L:D .G:
 NDEGDLGANAYNVLDSEGNLPLHAAKNCCTGDKLKLCKMEKTKTDFIDTANFANSPLHIIITQKPDCSVLDIEEFTSRNLDFGLVD-GDGK
 * 290 * 300 * 310 * 320 * 330 * 340 * 350 * 360 * 370

 -470 -480 -490 -500 -510 -520 -530 -540 -550
 MPIHYAAEASSEVLSYVIRNTKAESPQASAVENTQDVNGRTPLHCAISGNISK-GLSVMLLQNGVDCAVRDKNYSTPLHYAVAGNDIJSIK
 P:H.A.E : : L. V: . K.. S . . VN. D G.T H.A. : N: . . L ML : G.D .VRL . : P:H A : . . .
 NPLHHAVEHLPVILKGVMDHVKNSSEFQDLVNVNDDPDYFGNTIAHYAVVNKAQDNLNVRLKASGADLNVRNVGRAPIHVASSNGKANAVS
 * 380 * 390 * 400 * 410 * 420 * 430 * 440 * 450 * 460

Fig. 1A

-560 **570** -580 -590 -600 -610 -620 -630 -640
 NL--CSVKGRVQGVKSAA-SLICEDLQGDTPLHIACKVEGTKA FETVRQSIIKKHHGKQVLQELLIREGGSPRLNVSGFGSQSILSGVSGDLY
 .L C:: . Q:V: . : : F: :T L : : . : . : : I: . : :: N: . G : :: : : Y
 GLVSCGIDVNSQDVNGDTPLHIAVEGGSMETVLA VLNQRGADVS VQNNNDGVTPMLSAAKYGDIGVIKALGSAKPNIKG--EDTVAKSLLMEDY
 *470 *480 *490 *500 *510 *520 *530 *540 *550

 -650 -660 -670 -680 -690 -700 -710 -720 -730
 GYLNSQNFPSPVHA AVKANNLQLLNLFLLKKSPDI--LRQSSPNGFNPVHMA ALFADWVKTVKLIIENASGEEVN AQS DSTLTLPLHLACIRGD
 .: : F V : : . : : : . K.: R.: : . : : . L.: . : . L. NA. : . : . : P : : . : . :
 KGFTPLHF---VAGGGSRDTFRVVRKNEYEKCHDLATIR AALMQDRSGGELVNLGDFESENILGSPNAKFLOQHIQSANFGFSPARRGGIVSSN
 *560 *570 *580 *590 *600 *610 *620 *630 *640

 -740 -750 -760 -770 -780 -790 -800 -810 -820
 GSIIKRMVEHESVNVNQTMGPDQNTV LQYA INRGNHSLIKRLL-SHPSIDLNVRNADGKTS AHSAMEKGDLKTVKALCNAGADVNTVDNNNG
 :: : K : : : . : . : N: : Q A G: . : K.L S : DLN : . : . T: : A : GD : . V: : L . : : : . : G
 HNVMDILNFVGDSLHLP SERGYNA-MQVAALFGDKEAVRMLAKSAKPSDLMNKFTSATPTPLNIACLRGDNEVVRGLVGQ-HGIDINQRMG
 *650 *660 *670 *680 *690 *700 *710 *720 *730

 -830 -840 -850 -860 -870 -880 -890 -900 -910
 RSVISSLAIYSGQNEKKLVPIVKLLNSGAKIG-SQEDKNILLQKC CINS GYNKLLD LLEQGERIN-VEGKA-SPLVSAVVSG-----NTHAVK
 .: : Y: : . : : : K:L : G: . : : : L: : : G K: : . LL: . G. : N : : : S L SA:V:G V:
 SDKNTVLHYAISKGDSFL-VQKILAHTGGVDVNCE NNLGQTPLHLA VEGGDPKIVSSLKAGAVVNRLDDNGRSVLLSSAIVPGRKEKGVLGIVN
 *740 *750 *760 *770 *780 *790 *800 *810 *820

 -920 -930
 KLVA SGGDINQKVSDENS THYKNSL (SEQ ID NO: 1)
 KL: . G:DIN : : : : I : : . L
 KLLDRGADIN--LDGDHNILFDQCL (SEQ ID NO: 2)
 *830 *840

Fig. 1B

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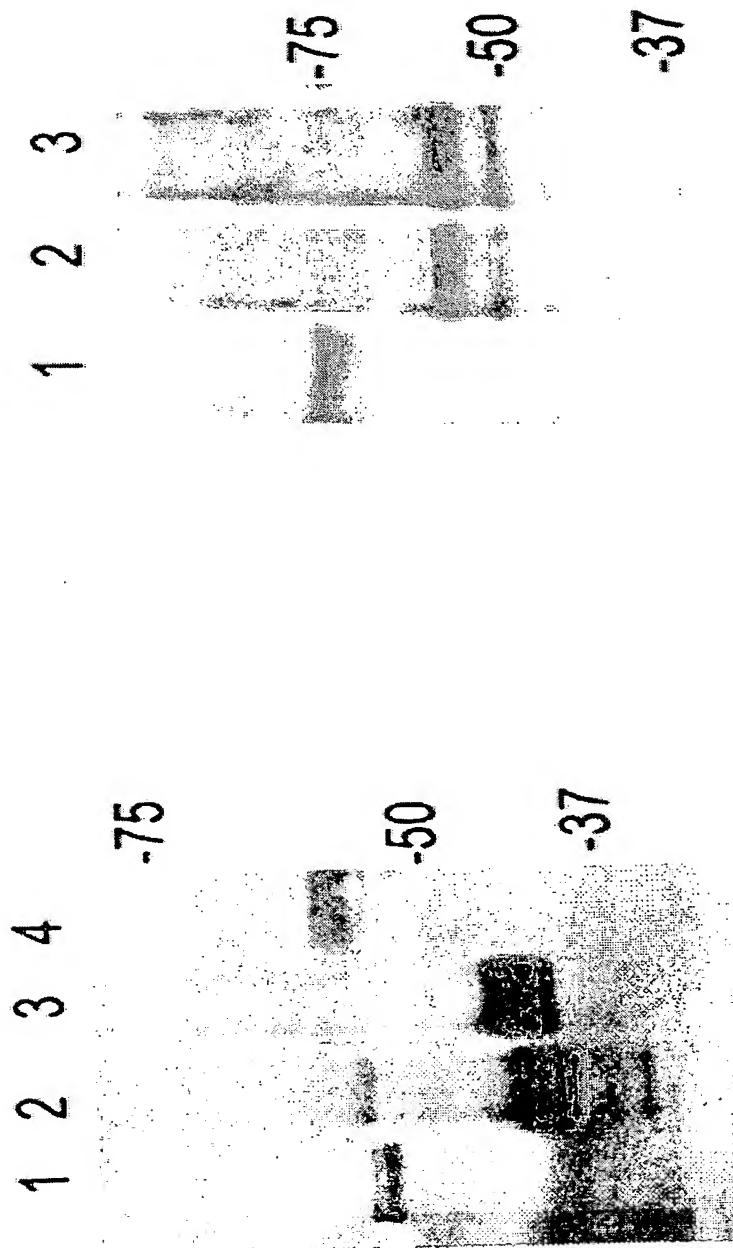


Fig. 2A

Fig. 2B

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A 1 2 3

100-
75-

50-
37-

25-

Fig. 3A

B 1 2 3 4 5

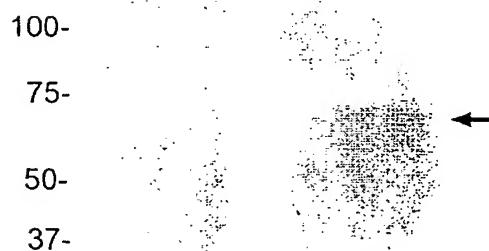


Fig. 3B

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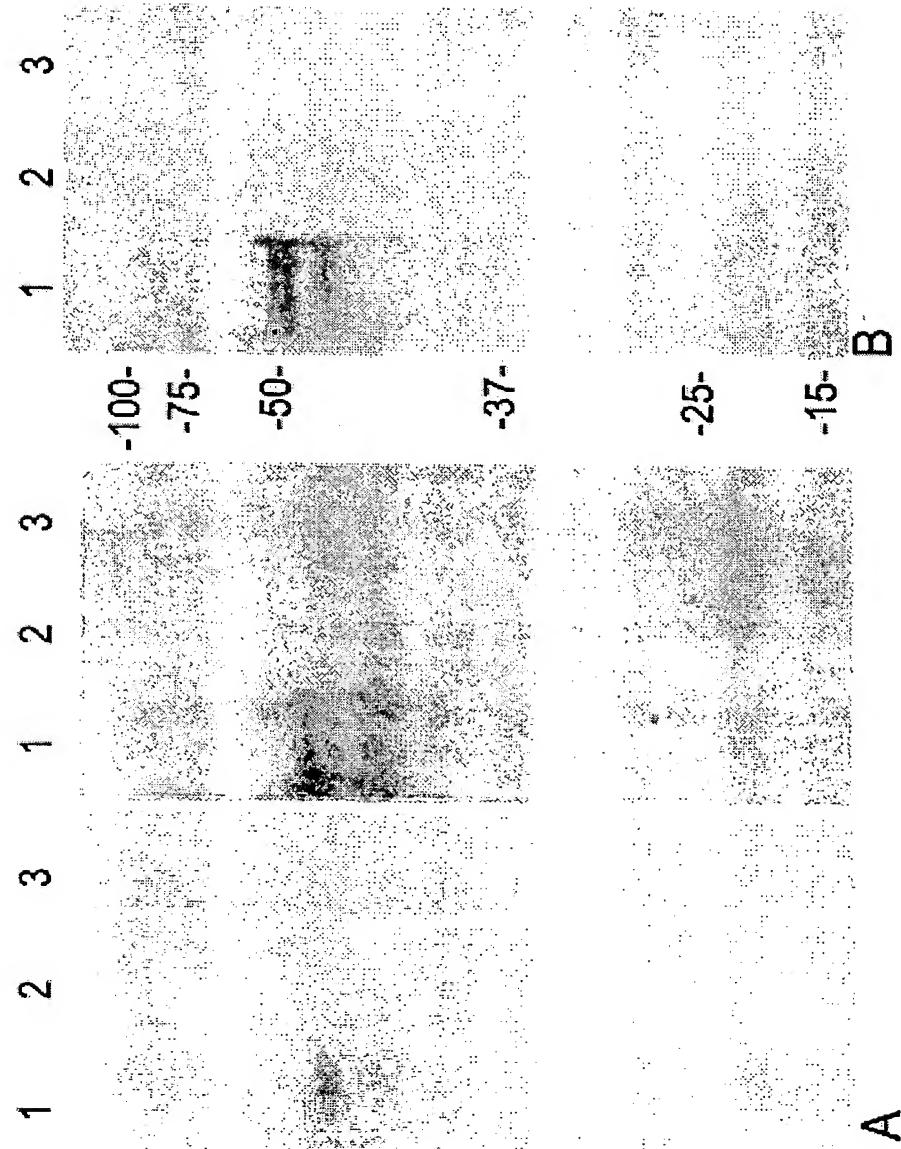


Fig. 4A

Fig. 4B

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1 2 3

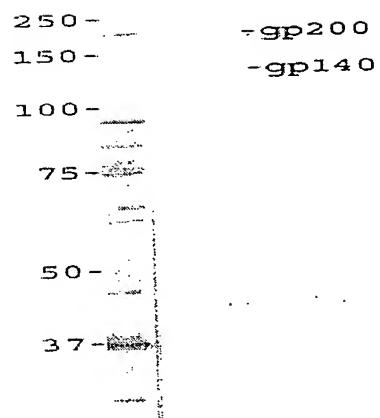


Fig. 5